

#### **IN THE CLAIMS**:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

Claim 1(Original): A method for separating proteins comprising the steps of:

(a) adsorbing a target protein on an ion exchanger by allowing a sample containing the target protein to contact the ion exchanger under a first condition at high ion strength and at a pH outside of the vicinity of the isoelectric point of the target protein; and

(b) eluting the component adsorbed on the ion exchanger under a second condition at lower ion strength than in the first condition, and at a pH closer to the isoelectric point side of the protein in the first condition.

Claim 2 (Currently Amended): The method for separating proteins according to Claim 1, wherein the first condition comprises comprising the step of using a buffer solution with a concentration of 0.05 M or more in the first condition.

Claim 3 (Currently Amended): The method for separating proteins according to Claim 1, wherein the first condition comprises comprising the steps of using a high concentration of the buffer solution comprising a combination of a weak acid and weak base in the first condition.

Claim 4 (Currently Amended): A method for separating proteins comprising the steps of:

- (a) adsorbing a target protein on an ion exchanger by allowing a sample containing the target protein to contact the ion exchanger under a first condition at [[high]] first ion strength and at a pH outside of the vicinity of an isoelectric point of the target protein; and
- (b) eluting the component adsorbed on the ion exchanger under a second condition at ion strength equal to or lower than in the first condition, and at a pH closer to the isoelectric point side of the protein in the first condition.

Claim 5 (Original): The method for separating proteins according to Claim 1 comprising the following step interposed between step (a) and step (b):

(c) washing the ion exchanger under a condition not eluting the target protein adsorbed on the ion exchanger.

Claim 6 (Original): The method for separating proteins according to Claim 5, wherein step (c) is applied under a substantially the same condition as in the first condition.

Claim 7 (Original): The method for separating proteins according to Claim 1, wherein the pH in the first condition is lower than the isoelectric point of the target protein, the ion exchanger is a cation exchanger, and

the pH in the second condition is in the vicinity of or higher than the isoelectric point of the target protein.

Claim 8 (Original): The method for separating proteins according to Claim 1, wherein the pH in the first condition is higher than the isoelectric point of the target protein, the ion exchanger is an anion exchanger, and

the pH in the second condition is in the vicinity of or lower than the pH corresponding to the isoelectric point of the target protein.

Claim 9 (Currently Amended): The method for separating proteins according to Claim 1, wherein the first condition comprises comprising the step of using a tris-succinate buffer in the first condition.

Claim 10 (Currently Amended): The method for separating proteins according to Claim

1, wherein the second condition comprises the step of using a buffer solution comprising a combination of the same acid and same base as in the buffer solution used in the first condition.

Claim 11 (Currently Amended): The method for separating proteins according to Claim 1, wherein the second condition comprises the step of using a buffer solution having a pH in the vicinity of the isoelectric point of the target protein.

Claim 12 (Original): The method for separating proteins according to Claim 1, wherein the sample contains a plurality of target proteins, and

step (b) comprises the step of continuously eluting the target proteins under a solvent condition corresponding to the isoelectric point of each protein.

Claim 13 (Original): The method for separating proteins according to Claim 1, wherein the protein is a glycoprotein.